

## AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

### Listing of Claims:

- 1           1.       (Currently amended) A method that facilitates dynamic delivery of  
2       service profiles to a client, comprising:  
3           performing a discovery operation to allow the client to discover new  
4       services on a network;  
5           if a new service is discovered for which the client does not possess a  
6       service profile, causing the client to obtain the service profile from the new  
7       service, wherein the service profile specifies how to use the new service; and  
8           causing the service profile to be installed on the client to enable the client  
9       to use the new service.
  
- 1           2.       (Original) The method of claim 1, wherein causing the client to  
2       obtain the service profile involves:  
3           causing the client to send a request for the service profile to the new  
4       service; and  
5           causing the client to receive the service profile from the new service.
  
- 1           3.       (Original) The method of claim 1, wherein the service profile  
2       includes code, and wherein causing the service profile to be installed on the client  
3       involves causing the code to be installed on the client.
  
- 1           4.       (Original) The method of claim 1,

2            wherein the service profile includes a specification that describes how to  
3 use the new service; and  
4            wherein causing the service profile to be installed on the client involves,  
5                        causing code to be generated to implement the  
6                        specification, and  
7                        causing the code to be installed on the client.

1            5.        (Original) The method of claim 1, wherein the service profile is  
2 encoded in a universal form that can be executed by different types of clients.

1            6.        (Original) The method of claim 1,  
2            wherein there exist different service profile implementations for different  
3 types of clients; and  
4            wherein causing the client to obtain the service profile involves,  
5                        communicating characteristics of the client to the new  
6                        service,  
7                        allowing the new service to select a service profile  
8                        implementation for the client based on the characteristics of the  
9                        client, and  
10                        allowing the new service to send the selected service profile  
11                        implementation to the client.

1            7.        (Original) The method of claim 1, wherein causing the client to  
2 obtain the service profile from the new service involves executing a dynamic  
3 extension profile, which implements a standard protocol that enables the client to  
4 acquire any profile the client needs at the time the profile is needed.

1            8.        (Original) The method of claim 1,

2            wherein performing the discovery operation involves using the Bluetooth  
3    Service Discovery Protocol (SDP); and  
4            wherein the client and the new service communicate using the Bluetooth  
5    networking standard.

1            9.        (Original) The method of claim 1, wherein the service profile can  
2    define a service-specific Application Programming Interface (API).

1            10.       (Original) The method of claim 1, wherein the service profile  
2    implements a domain-specific protocol stack associated with the new service.

1            11.       (Currently amended) A computer-readable storage medium storing  
2    instructions that when executed by a computer cause the computer to perform a  
3    method that facilitates dynamic delivery of service profiles to a client, the method  
4    comprising:  
5            performing a discovery operation to allow the client to discover new  
6    services on a network;  
7            if a new service is discovered for which the client does not possess a  
8    service profile, causing the client to obtain the service profile from the new  
9    service, wherein the service profile specifies how to use the new service; and  
10          causing the service profile to be installed on the client to enable the client  
11    to use the new service.

1            12.       (Original) The computer-readable storage medium of claim 11,  
2    wherein causing the client to obtain the service profile involves:  
3            causing the client to send a request for the service profile to the new  
4    service; and  
5            causing the client to receive the service profile from the new service.

1           13.    (Original) The computer-readable storage medium of claim 11,  
2    wherein the service profile includes code, and wherein causing the service profile  
3    to be installed on the client involves causing the code to be installed on the client.

1           14.    (Original) The computer-readable storage medium of claim 11,  
2           wherein the service profile includes a specification that describes how to  
3    use the new service; and  
4           wherein causing the service profile to be installed on the client involves,  
5                    causing code to be generated to implement the  
6                    specification, and  
7                    causing the code to be installed on the client.

1           15.    (Original) The computer-readable storage medium of claim 11,  
2    wherein the service profile is encoded in a universal form that can be executed by  
3    different types of clients.

1           16.    (Original) The computer-readable storage medium of claim 11,  
2           wherein there exist different service profile implementations for different  
3    types of clients; and  
4           wherein causing the client to obtain the service profile involves,  
5                    communicating characteristics of the client to the new  
6                    service,  
7                    allowing the new service to select a service profile  
8                    implementation for the client based on the characteristics of the  
9                    client, and  
10                  allowing the new service to send the selected service profile  
11                  implementation to the client.

1           17.    (Original) The computer-readable storage medium of claim 11,  
2 wherein causing the client to obtain the service profile from the new service  
3 involves executing a dynamic extension profile, which implements a standard  
4 protocol that enables the client to acquire any profile the client needs at the time  
5 the profile is needed.

1           18.    (Original) The computer-readable storage medium of claim 11,  
2 wherein performing the discovery operation involves using the Bluetooth  
3 Service Discovery Protocol (SDP); and  
4 wherein the client and the new service communicate using the Bluetooth  
5 networking standard.

1           19.    (Original) The computer-readable storage medium of claim 11,  
2 wherein the service profile can define a service-specific Application Programming  
3 Interface (API).

1           20.    (Original) The computer-readable storage medium of claim 11,  
2 wherein the service profile implements a domain-specific protocol stack  
3 associated with the new service.

1           21.    (Currently amended) An apparatus that facilitates dynamic delivery  
2 of service profiles to a client, comprising:  
3           a discovery mechanism configured to perform a discovery operation that  
4 allows the client to discover new services on a network;  
5           a profile transfer mechanism, wherein if a new service is discovered for  
6 which the client does not possess a service profile, the profile transfer mechanism

7 is configured to cause the service profile to be transferred from the new service to  
8 the client, wherein the service profile specifies how to use the new service; and  
9 an installation mechanism configured to cause the service profile to be  
10 installed on the client to enable the client to use the new service.

1 22. (Original) The apparatus of claim 21, wherein the profile transfer  
2 mechanism is configured to:  
3 cause the client to send a request for the service profile to the new service;  
4 and to  
5 cause the client to receive the service profile from the new service.

1 23. (Original) The apparatus of claim 21, wherein the service profile  
2 includes code, and wherein the installation mechanism is configured to cause the  
3 code to be installed on the client.

1 24. The apparatus of claim 21,  
2 wherein the service profile includes a specification that describes how to  
3 use the new service; and  
4 wherein the installation mechanism is configured to,  
5 cause code to be generated to implement the specification,  
6 and to  
7 cause the code to be installed on the client.

1 25. (Original) The apparatus of claim 21, wherein the service profile is  
2 encoded in a universal form that can be executed by different types of clients.

1 26. (Original) The apparatus of claim 21,

2            wherein there exist different service profile implementations for different  
3 types of clients; and  
4            wherein the profile transfer mechanism is configured to,  
5                      communicate characteristics of the client to the new  
6                      service,  
7                      allow the new service to select a service profile  
8                      implementation for the client based on the characteristics of the  
9                      client, and to  
10                      allow the new service to send the selected service profile  
11                      implementation to the client.

1            27.    (Original) The apparatus of claim 21, wherein the profile transfer  
2 mechanism is configured to execute a dynamic extension profile, which  
3 implements a standard protocol that enables the client to acquire any profile the  
4 client needs at the time the profile is needed.

1            28.    (Original) The apparatus of claim 21,  
2            wherein the discovery mechanism uses the Bluetooth Service Discovery  
3 Protocol (SDP); and  
4            wherein the client and the new service communicate using the Bluetooth  
5 networking standard.

1            29.    (Original) The apparatus of claim 21, wherein the service profile  
2 can define a service-specific Application Programming Interface (API).

1            30.    (Original) The apparatus of claim 21, wherein the service profile  
2 implements a domain-specific protocol stack associated with the new service.

1           31.     (Currently amended) A device configured to dynamically deliver a  
2     service profile to a client to enable the client to use a service provided by the  
3     device, comprising:  
4           the device configured to provide the service;  
5           a memory within the device containing the service profile that enables  
6     clients to use the service provided by the device, wherein the service profile  
7     specifies how to use the service provided by the device; and  
8           a profile transfer mechanism configured to transfer the service profile to  
9     the client on demand.

1           32.     (Original) The device of claim 31, further comprising a discovery  
2     mechanism configured to perform a discovery operation that allows devices to  
3     discover each other.